$$1 \mod f(X) = \sin X \cdot \tan X.$$

$$(1) \bigcirc g(\vec{x}) = f(\vec{x}) + 3\cos x_{\square} \stackrel{X \in \left(0, \frac{\pi}{2}\right)}{\bigcirc 0} \bigcirc g(\vec{x}) \bigcirc g(\vec{x})$$

(2) 
$$X \in \left[0, \frac{\pi}{2}\right]_{0} \int f(x) dx$$

$$2 \bmod f(x) = \sin x - g(x) = \ln x - h(x) = x^2 - ax - 1$$

$$\lim_{n \to \infty} x \in \left[ \ 0,1 \right] \lim_{n \to \infty} f(x) \geq g(x+1) \lim_{n \to \infty} f(x) = g(x+1) \lim_$$

$$20000 \times [0,1]_{00} e^{f(x)} + h(x) - g(x) > 0_{0000} a_{00000}$$

$$300000 f(x) = e^{x} - kx^{2} 000 k 0000 e^{00000000000 g(x)} 0 f(x) 0000$$

$$22000^{k} = \frac{1}{2}00000_{X.0}00 f(x)..x + 10000$$

$$\textcircled{2} \ \square^{X.0} \ \square^{f(x)...2x+1-\ \sin x} \ \square^{k} \ \square^{00000}$$

$$4 \bmod 0 \qquad f(x) = x \ln x - ae^x, g(x) = \sin x - x \det ae^x, g(x) = \sin x - x \det ae^x, g(x) = x \det ae^x$$

$$200 a = 1000 h(x) = g(x) = 0000 x > 000 f(x) < h(x) = 0000 x > 0000 f(x) < h(x) = 0000 f(x) < h(x) < h(x) = 0000 f(x) < h(x) < h($$

$$20000 x^2 e^x > x(2 + \ln x) - 2(1 - \sin x)$$

$$6 \square \square \square f(x) = x^2 e^x - x e^x \sin x - ax + a \sin x.$$

$$200_{a=1} x_{>0} = \frac{f(x)}{x - \sin x} = \frac{f(x)}{x - \sin x} = \frac{f(x)}{x - \sin x}$$

$$700000 f(X) = \frac{\pi - \sin X}{X}.$$

 $\square 2 \square \square_{0 < a < \pi} \square \square \square \square \square_{x \in (0,\pi)} \square \square^{f(x) > a} \ln \frac{1}{x}.$ 

800000 
$$f(x) = \alpha e^{x} - x^{2}$$
  $\alpha \in \mathbb{R}_{00000} e^{\alpha} = 2.71828_{0000000000}$ .

0100 a = 2000000 f(x) 00000

$$9001000 \le X \le \frac{\pi}{2}00000_{X \ge \sin X}0$$

$$200 e^{x} \ge kx + 1$$

10\_\_\_ *x*\_\_\_\_

$$01000_{\cos X} 01 - \frac{1}{2} x^2 0000$$

$$200 e^{x} - 1 > x + ax^{2} 0000000 a 000000$$

$$3 = 2e^x + \cos x > \sqrt{e} \ln \left( x + \frac{3}{2} \right) + \sin x + 2$$

$$0100000 = f(ax) = 000000$$

$$1200100000 X \in [0,1]_{00} \frac{\sqrt{2}}{2} X \le \sin X \le X_{0}$$

$$13 \text{ and } x \in \left[0,1\right] \text{ and } x \leq x$$

$$1400000 f(x) = x \ln x.$$

$$20000 f(x) > \frac{3\sin x - \cos x - 2}{2 + \cos x}.$$

$$15 \text{ and } f(x) = ax - \sin x \quad x \in (0, +\infty) (a \in R).$$

(1) 
$$f(x) > 0$$
  $\partial$   $\partial$   $\partial$ 

(2) 
$$\int_{0}^{a} dx = 1$$
  $\int_{0}^{a} dx = 1$   $\int_{0}^{a} dx = 1$ 



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